

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
4 October 2001 (04.10.2001)

PCT

(10) International Publication Number  
**WO 01/72146 A3**

- (51) International Patent Classification<sup>7</sup>: **A23L 1/38**
- (21) International Application Number: **PCT/US01/09212**
- (22) International Filing Date: **23 March 2001 (23.03.2001)**
- (25) Filing Language: **English**
- (26) Publication Language: **English**
- (30) Priority Data:  
60/193,028      29 March 2000 (29.03.2000)      US
- (71) Applicant: **THE PROCTER & GAMBLE COMPANY**  
[US/US]; One Procter & Gamble Plaza, Cincinnati, OH  
45202 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AT  
(utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA,  
CH, CN, CO, CR, CU, CZ, CZ (utility model), DE, DE  
(utility model), DK, DK (utility model), DM, DZ, EE, EE  
(utility model), ES, FI, FI (utility model), GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,  
SK (utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,  
VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian  
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European  
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,  
IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventors: **WONG, Vincent, York-Leung**; 6467 Katherine  
Manor Court, Hamilton, OH 45011 (US). **SACKEN-  
HEIM, Richard, Joseph**; 1431 Woodridge Drive, Hamil-  
ton, OH 45013 (US). **SIU, Susana, R., Waimin**; 3448 Ed-  
wards Road, #9, Cincinnati, OH 45208 (US).
- (74) Agents: **REED, T., David et al.**; The Procter & Gam-  
ble Company, 5299 Spring Grove Avenue, Cincinnati, OH  
45217-1087 (US).
- Published:**  
— with international search report
- (88) Date of publication of the international search report:  
21 March 2002
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

WO 01/72146 A3

(54) Title: **PROCESS FOR MAKING LOW FAT NUT SPREAD COMPOSITION WITH HIGH PROTEIN AND FIBER**

(57) Abstract: A process for making a low fat nut spread having high protein and high fiber. The process comprises the steps of: (a) preparing a protein containing oil suspension; (b) preparing a sugar containing oil suspension; and (c) combining the protein containing oil suspension and the sugar containing oil suspension to form the nut spread. The "protein containing oil suspension" comprises high amounts of protein and fiber. The "sugar containing oil suspension" comprises high amounts of sugar. The resultant nut spread has a protein to fat ratio of greater than about 0.68:1 and a fiber to fat ratio of greater than about 0.18:1. The nut spread has good flavor and texture.

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/09212

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A23L1/38

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, PAJ, EPO-Internal, FSTA

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 885 646 A (SACKENHEIM RICHARD JOSEPH ET AL) 23 March 1999 (1999-03-23) cited in the application the whole document	1
A	US 5 667 838 A (WONG VINCENT YORK-LEUNG ET AL) 16 September 1997 (1997-09-16) cited in the application the whole document	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*G\* document member of the same patent family

Date of the actual completion of the international search

25 September 2001

Date of mailing of the international search report

02/10/2001

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Vuillamy, V

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/09212

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5885646	A	23-03-1999	AU 9809298 A	17-05-1999
			BR 9813883 A	26-09-2000
			CN 1278147 T	27-12-2000
			EP 1026964 A1	16-08-2000
			WO 9921440 A1	06-05-1999
<hr/>				
US 5667838	A	16-09-1997	AU 4250097 A	26-03-1998
			BR 9712798 A	14-12-1999
			CN 1233156 A	27-10-1999
			EP 0929236 A1	21-07-1999
			JP 2000503548 T	28-03-2000
			WO 9809540 A1	12-03-1998
			US 5885645 A	23-03-1999
<hr/>				